

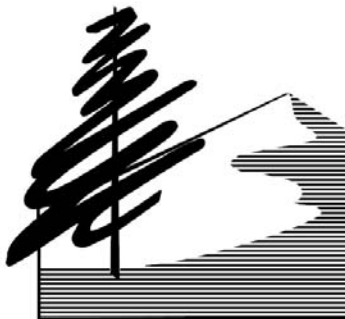
Kelly Ranch
Habitat Conservation Area
(S024)

Annual Work Plan
October 2007 - September 2008

Prepared for:

U.S. Fish and Wildlife Service
California Department of Fish and Game
City of Carlsbad

Prepared by:



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Table of Contents

I. Introduction	1
II. Management Activities	1
A. Capital Improvements	2
B. Biological Surveys	2
C. Habitat Maintenance	2
D. Public Services	4
E. Reporting	4
F. Office Maintenance	5
G. Operations	5
III. Workload and Budgets	5
A. Supervision and Staffing	5
B. Budgeting	5
IV. Appendices	6
Appendix 1. Annual Task Schedule	7
Appendix 2. Annual Budget	8
Appendix 3. HCA Location Maps	11

I. INTRODUCTION

This work plan has been developed from the guidelines for goals and objectives set forth in the Kelly Ranch Habitat Conservation Area Management Plan dated November 2002 (CNLM 2002). The Management Plan includes management requirements as agreed to by the United States Fish and Wildlife Service (USFWS) and California Department of Fish and Game (CDFG), and additional management activities that the Center for Natural Lands Management (CNLM) feels is appropriate to protect and maintain the natural resources in perpetuity. CNLM holds a conservation easement (since February 2002) on the Kelly Ranch Habitat Conservation Area (HCA) and performs or oversees the tasks identified in the management plan.

The purpose of this work plan is to identify the tasks and budget required to complete the management activities for the upcoming management year that will begin on October 1, 2007 and end on September 30, 2008. Unless otherwise stated, all tasks will be performed by CNLM's Area Manager: Markus Spiegelberg, and Preserve Managers: Jessica Vinje and Patrick McConnell.

Summary of Tasks and Goals for the 2007-2008 Fiscal Year:

- Replace (and install) signs and fix fencing as necessary
- Note all animal species observed, and map locations of any sensitive species
- Count and map sensitive plants throughout the preserve
- Remove nonnative plant species, especially natal grass (*Melinis repens*), and tree tobacco (*Nicotiana glauca*)
- Follow progress of restoration activities with Planning Systems, Inc.
- Patrol and conduct site enforcement on a regular basis
- Remove historic itinerant encampment trash
- Report and describe data collected and management actions taken on the HCA to the wildlife agencies
- Revise the Habitat Management Plan
- Provide an accounting of funds to be spent in the fiscal year

Appendix 1 (*Task Schedule*) identifies the approximate schedule of tasks for the upcoming fiscal year. Appendix 2 (*Annual Budget*) provides a financial summary for both staff time and costs for the year. The location of the HCA is shown in Appendix 3.

II. MANAGEMENT ACTIVITIES

The following sections identify and describe the activities to be performed during this management year. Based upon the Property Analysis Record (PAR) developed by CNLM to outline long-term management tasks and costs, management activities for the HCA can be broken down into seven tasks: Capital Improvements, Biological Surveys, Habitat Restoration, Public Services, Reporting, Office Maintenance, and Operations. Each of these categories will be discussed below.

A. CAPITAL IMPROVEMENTS

The installation and maintenance of signs are the only capital improvements to be undertaken during this management year.

Signing CNLM signs have been posted at all of the major access points and along most of the perimeter to the HCA and a few other notable locations. These signs will be replaced as necessary. Each sign explains that the HCA is a dedicated open space, and that OHV activity, mountain biking, dumping and shooting are prohibited. Additionally, several new signs will be posted in areas to discourage the public from accessing and dumping in the HCA.

B. BIOLOGICAL SURVEYS

Monitoring activities at the HCA will continue over the next fiscal year. During the last several years, monitoring included sensitive bird and plant surveys.

Monitoring during the next year includes focused surveys for sensitive plants, while simultaneously noting any sensitive animals observed. All data will be entered or stored in a Geographic Information System (GIS) database. A brief description of monitoring activities outlined by taxa is provided below:

Sensitive Plant Species The distribution and abundance of sensitive plant species was recorded in 2003. These surveys are repeated every three to five years, depending on the species. Sensitive plant species that require updated mapping and population estimates will be surveyed this year (Table 1). Surveys will continue to include assessments of the transplanted Orcutt's hazardia (*Hazardia orcuttii*) plants, which will encompass counts of adult transplants as well as seedlings.

No other biological monitoring activities are planned for the fiscal year.

C. HABITAT RESTORATION AND MAINTENANCE

Most of the HCA's habitat is good quality, with little disturbance from nonnative species. The most disturbed area is located west of Cannon Road and other small patches of disturbed area exist scattered throughout the HCA. The Kelly Land Company (developer) was responsible for the enhancement in many of these disturbed areas and has almost completed an enhancement plan that began in 2005 (Planning Systems 2001). CNLM will follow the progress of the enhancement and restoration activities. CNLM has removed large stands of the persistent tree tobacco, and will continue to make efforts to eradicate this species from the preserve.

This fiscal year, our primary objective will be in the eradication of natal grass. This species was found growing densely in open coastal sage scrub in the center of the preserve. Currently, it covers a small area, probably totaling less than a quarter acre. The goal will be to hand-pull and use herbicide where appropriate in the early spring, before the grasses flower.

Table 1. Sensitive plant list, survey history and schedule

Species and Status	Occurrence, based on earlier surveys			Comments
	1998 (Merkel & Associates)	2003	2005	
California adolphia (<i>Adolphia californica</i>) CNPS List 2.1	“Several hundred”	24		Next survey in 2008
Del Mar manzanita (<i>Arctostaphylos glandulosa</i> ssp. <i>crassifolia</i>) FE, CNPS List 1B.1, MHCP.	29 (probably spp. <i>zacaensis</i>)	<50 Located in dense habitat and difficult to count		Next survey in 2008
Wart-stemmed ceanothus (<i>Ceanothus verrucosus</i>) CNPS List 2.2, MHCP	“in the hundreds”	9		Next survey in 2008
Small-flowered microseris (<i>Microseris douglasi</i> var. <i>platycarpa</i>) CNPS List 4.2	20	Not found, probably impacted by development	Not found	
Prostrate spineflower (<i>Chorizanthe procumbens</i>) Rejected from listing by CNPS due to commonality	??? (“loss of majority of population” due to construction)	Not found, probably impacted by development	Not found	
Western dichondra (<i>Dichondra occidentalis</i>) CNPS List 4.2	unknown	Common	Several populations found	Next survey in 2008
Palmer’s grapplinghook (<i>Harpagonella palmeri</i>) CNPS List 4.2	???	Approximately 400	Over 100 individuals	Next survey in 2008
Orcutt’s hazardia (<i>Hazardia orcuttii</i>) CT,CNPS list 1B.1 MHCP	none	20 (transplanted from the Manchester Habitat Conservation Area)	Approximately 100	100 planted in 2004, 106 adults, 3 seedlings counted in 2007
Nuttal’s scrub oak (<i>Quercus dumosa</i>) MHCP, CNPS List 1B.1	??? (“lightly scattered”)	Common		Next survey in 2008
Cliff spurge (<i>Euphorbia misera</i>) MHCP, CNPS List 2.2	“one thicket”	3	Not found	Next survey in 2008
Ashy-spike moss (<i>Selaginella cinerascens</i>) Rejected from listing by CNPS due to commonality	???	Common		

* FE= Federally listed endangered; CT= California threatened; MHCP= Multiple Habitat Conservation Program Covered Species; CNPS= California Native Plant Society; ???= no initial count made during planning process.

D. PUBLIC SERVICES

Public service activities include the patrolling of the HCA, consulting with neighbors about perimeter landscaping, and responding to emergencies. However, other opportunities for public service will undoubtedly be forthcoming during the year with local groups and individuals interested in volunteering labor for HCA projects, and class field trips from local schools. CNLM will try to accommodate these activities whenever possible.

1. Patrols Patrols will be performed approximately two to four times per month, and during biological surveys or other HCA activities. Routine fence and sign repair and replacement are the main tasks. Observations of sensitive species, new human impacts, and trash will be gathered during patrols as well. In addition, several truck loads of trash will be picked up during one of the routing patrols and will be transported to the dump during this fiscal year.

2. Emergency Response Staff time has been allocated from the current budget for response to emergencies on the HCA. Such emergencies could include response to wildfires, wildlife problems reported by neighbors, and trespass.

E. REPORTING

Reporting requirements include the management of the HCA's database/GIS system, the photo-documentation stations, and the production of various status reports to the USFWS, CDFG, and CNLM administration.

1. Database/GIS Management Data derived from routine patrols and photo-documentation will be entered into and maintained in the HCA's existing database/GIS system. Additional databases will be established for the various biotic monitoring programs including the production of historical and current vegetation maps.

2. Photo-documentation Stations Permanent photo-documentation stations were established in 2005 and the photographs were taken in 2006. CNLM will retake these pictures in 2009.

3. Reports

a. Year-End/Agency Reports By the end of December 2008, an annual report will be prepared by the preserve manager detailing the results of the year's management activities. This report will include recommendations for the continuation of various activities for the following fiscal year and will be submitted to the USFWS and CDFG as required under permit reporting conditions.

b. Annual Work Plan The work plan for the 2008-2009 fiscal year will be formulated by the end of the 2007-2008 fiscal year and will be based upon experiences during previous years' operations. This work plan will be submitted to the USFWS and CDFG.

c. Habitat Management Plan The current management plan will be updated during the upcoming fiscal year and submitted to the City and wildlife agencies by December of 2007.

F. OFFICE MAINTENANCE

Preserve management will maintain offices in an organized manner to facilitate maximum efficiency. This section of the budget includes funds for general office work, utilities, and telephones, among other items and tasks.

G. OPERATIONS

Operations include the training and professional growth of CNLM personnel, and inspection of the HCA by CNLM administration. Funds have been allocated in the current budget for the Preserve Managers to attend classes or seminars during the 2006-2007 year. Also included within this category of activity is the conduct of employee reviews.

III. WORKLOAD AND BUDGETS

A. SUPERVISION & STAFFING

The Area Manager will be supervised by CNLM's Director of Science, Dr. Deborah Rogers. Tasks and hours will be coordinated by the Area Manager and approved by Dr Rogers. The Area Manager, Markus Spiegelberg will supervise the Preserve Managers, Jessica Vinje and Patrick McConnell. Additionally, hours have been allocated for a Dr. Rogers to assist with document reviewing and scientific research conducted on CNLM preserves.

B. BUDGETING

A budget of \$16,003 has been allocated for this fiscal year and is included here as Appendix 2. Every effort will be made by Preserve Management to allocate time and expenses according to this estimated budget.

IV. REFERENCES

CNLM. 2002. Kelly Ranch Habitat Conservation Area Habitat Management Plan. November, 2002.

Planning Systems. 2001. Revised Open Space Natural Habitat Restoration and Revegetation Program, Kelly Ranch "Core Area." Planning Systems #980738.

V. APPENDICES

Appendix 1

2007-2008 Task Schedule

Task	October- December 2007	January-March 2008	April to June 2008	July to September 2008
Nonnative Plant Removal	X	X	X	X
Sensitive Plant Surveys		X	X	X
GIS/Database	X		X	
Fencing/Signage	X	X	X	X
Patrolling	X	X	X	X
Reports				X
Public Outreach	X	X	X	

Appendix 2

Annual Budget 2007-2008

Section 9 - Ongoing Tasks and Costs

Property Title: Kelly Ranch openspace

Dataset: CA005

PAR ID: S024V08

10/16/2007

Budget: Annual Budget 2007-8

Task list	Specificaton	Unit	Number of Units	Cost / Unit	Annual Cost	Divide Years	Total Cost
BIOTIC SURVEYS							
Project Management	Supervise/coordinate MS	L. Hours	2.00	40.55	81.10	1	81.10
Plant Ecologist	Rare Plant Surveys PM	L. Hours	24.00	27.32	655.68	1	655.68
Science Director	Planning and Review	L. Hours	8.00	50.00	400.00	1	400.00
Sub-Total							1,136.78
HABITAT RESTORATION							
Exotic Plant Control	Hand Removal, Labor JV	L. Hours	16.00	32.48	519.68	1	519.68
Exotic Plant Control	Hand Removal, Labor PM	L. Hours	32.00	27.32	874.24	1	874.24
Exotic Plant Control	Herbicide 41% con.	Gal.	0.50	130.00	65.00	1	65.00
Sub-Total							1,458.92
PUBLIC SERVICES							
Patrolling	Patrol JV	L. Hours	16.00	32.48	519.68	1	519.68
Patrolling	Patrol PM	L. Hours	69.00	27.32	1,885.08	1	1,885.08
Sub-Total							2,404.76
GENERAL MAINTENANCE							
Hauling, Truck	Truckload	Item	2.00	30.00	60.00	1	60.00
Sub-Total							60.00
REPORTING							
Database Management	GIS (CNLM PM)	L. Hours	8.00	27.32	218.56	1	218.56
Database Management	GIS (CNLM AM)	L. Hours	2.00	40.55	81.10	1	81.10
Annual Work Plan	Plan and PAR Budget PM	L. Hours	8.00	27.32	218.56	1	218.56
Annual Work Plan	Plan and PAR Budget MS	L. Hours	2.00	40.55	81.10	1	81.10
Agency Report	Annual Report and Mngmt Pln	L. Hours	16.00	27.32	437.12	1	437.12
Agency Report	Annual Report and Mngmt Pln	L. Hours	12.00	40.55	486.60	1	486.60
Agency Report	CE Binder MS	L. Hours	8.00	40.55	324.40	1	324.40
Sub-Total							1,847.44
OFFICE MAINTENANCE							
Administrative	Operations AM	L. Hours	20.00	40.55	811.00	1	811.00
Administrative	Operations PM	L. Hours	6.00	32.48	194.88	1	194.88
Administrative	Operations PM	L. Hours	18.00	27.32	491.76	1	491.76
Telephone Charges, Annual	Cell and office phone	Year	0.04	3,300.00	132.00	1	132.00
Office Supplies, Year	Office Supplies	Person	0.04	2,500.00	100.00	1	100.00
Other	office reimbursement	Year	0.04	5,115.00	204.60	1	204.60
Sub-Total							1,934.24

Task list	Specificaton	Unit	Number of Units	Cost / Unit	Annual Cost	Divide Years	Total Cost
FIELD EQUIPMENT							
Vehicle	Miles, maint. insurance, gas	Year	1,289.00	1.18	1,521.02	1	1,521.02
Sub-Total							1,521.02
OPERATIONS							
Audit	CPA Audit	Year	0.04	3,043.00	121.72	1	121.72
Insurance	General	Item	1.00	323.05	323.05	1	323.05
Other	Staff retreat MS	L. Hours	1.00	40.55	40.55	1	40.55
Other	Staff retreat JV	L. Hours	2.00	32.48	64.96	1	64.96
Other	Staff retreat PM	L. Hours	2.00	27.32	54.64	1	54.64
Other	Vacation, holiday, sick MS	L. Hours	7.00	40.55	283.85	1	283.85
Other	Vacation, holiday, sick JV	L. Hours	7.00	32.48	227.36	1	227.36
Other	Vacation, holiday, sick PM	L. Hours	6.00	27.32	163.92	1	163.92
Other	Conf expense	Item	0.04	500.00	20.00	1	20.00
Other	Retreat expense	Item	0.04	1,485.00	59.40	1	59.40
Other	BioOne Subscription	Year	0.04	245.00	9.80	1	9.80
Sub-Total							1,369.25
CONTINGENCY & ADMINISTRATION							
Contingency							1,173.24
Administration							3,097.36
Sub-Total							4,270.60
Total							16,003.01

Appendix 3

HCA Location Maps

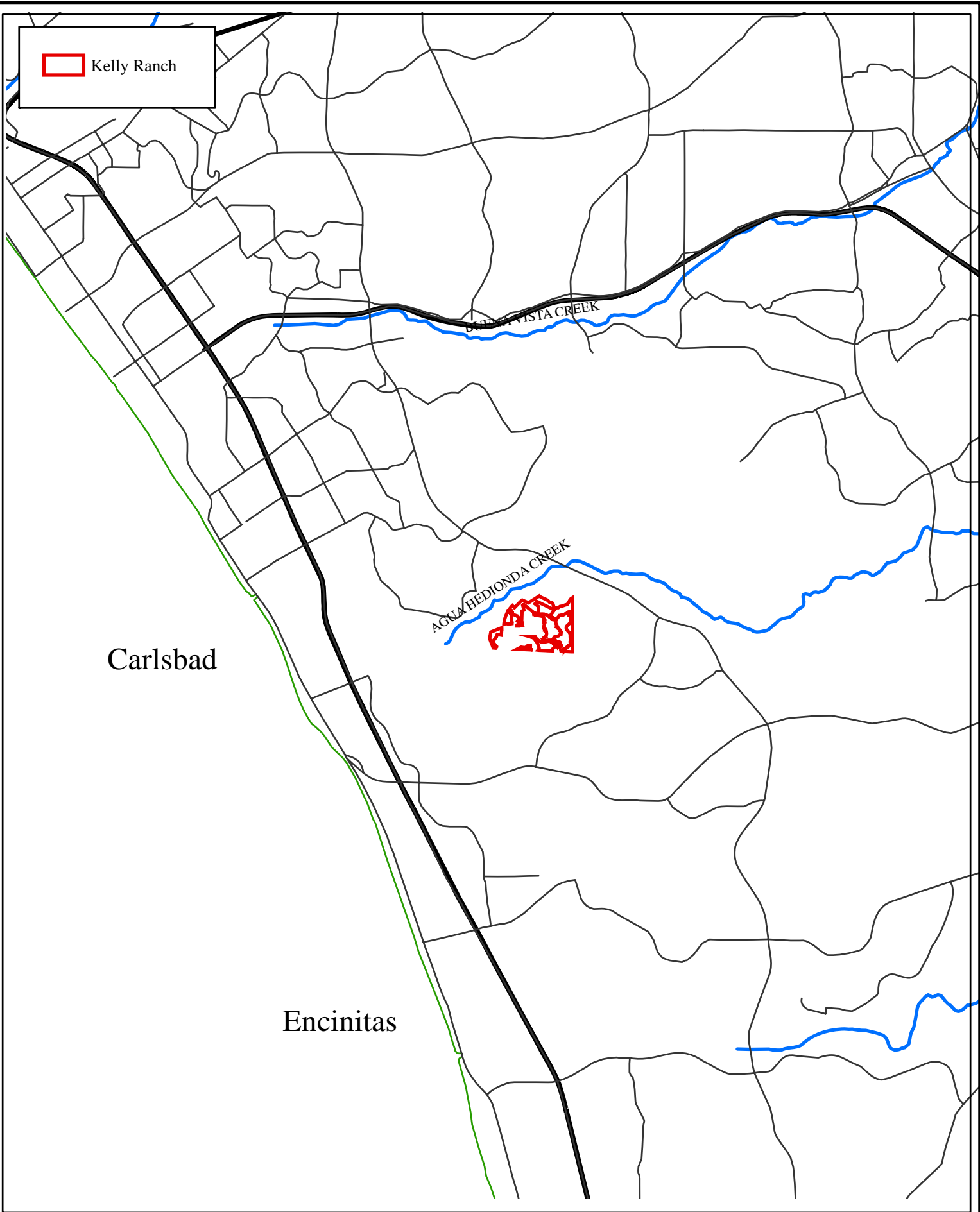


Figure 1
Preserve Vicinity
Kelly Ranch Habitat Conservation Area - Carlsbad, CA





Figure 2
Preserve Location
Kelly Ranch Habitat Conservation Area - Carlsbad, CA